

Westinghouse Electric Corporation Bloomington Project 2400 Ardmore Boulevard Pittsburgh PA 15221

July 25, 1991

DATE/RECEIVED

BP:91-0659

JUL 26 1991

Director Waste Management Division United States Environmental Protection Agency, Region V 230 South Dearborn Street Chicago, IL 60604 DEM

Assistant Attorney General Land and Natural Resources Division U. S. Department of Justice Washington, DC 20530

Ms. Corinne Wellish, Assistant Commissioner Office of Environmental Response Indiana Department of Environmental Management 5500 West Bradbury Avenue Indianapolis, IN 46241

Director Utilities Service Board City of Bloomington P. O. Box 1216 1969 South Henderson Bloomington, IN 47402

Monroe County Board of Health 119 West Seventh Street Bloomington, IN 47401

Reference:

Ground Water Monitoring Report

for Neal's Dump

Dear Madam/Sir:

Enclosed please find the semi-annual ground water monitoring report for Neal's Dump. Results of ground water monitoring samples taken on May 29-30, 1991 are presented.

These results show the presence of PCBs for the first time in monitoring wells 1D, 2D, 4D, and 6B. PCBs were also found in well 5D for the first time since May 1987. In order to verify these results, Westinghouse again sampled the monitoring wells on June 20-21, 1991. PCBs were again detected in monitoring wells 4D and 5D. Samples from wells 1D and 2D were below detection limits (BDL). Well 6B was dry and therefore, did not produce a sample. In order to determine if any trend is developing, Westinghouse again sampled the wells on July 18 and will continue to sample the monitoring wells monthly through November of 1991, when the next semi-annual monitoring event is scheduled. Results of this monitoring activity will be reported to you.

Once the results of the June monitoring event was made available, Westinghouse sampled nearby residential wells on July 17, 1991. No PCBs were found in these residential wells (based on a PCB detection limit of 0.1 ppb). A report describing the residential well monitoring program and results will be forwarded to you shortly. Also, results of the residential well sampling effort will be provided to each well user.

If you have any questions regarding this report, please contact Jim Patrick on 812-334-0030.

Very truly yours,

WESTINGHOUSE ELECTRIC CORPORATION

James L. Little, Director **Bloomington Project**

Mick Pompeli

Rex A. Osborn cc: Dan J. Hopkins

Geoffrey M. Grodner, Esquire

Steve Creech, Administrator



Westinghouse Electric Corporation - Bloomington Project

P O Box 997 Bloomington Indiana 47402-0997

DATE/RECEIVED

July 25, 1991*

JUL 3 1 1991

BP-BPO-91-262

DEM

Owen County Health Dept. Dr. B. Diane Wells Courthouse Spencer, IN 47460

Ref: Groundwater Monitoring Report for Neal's Dump

Dear Dr. Wells;

Enclosed please find a copy of the semi-annual groundwater monitoring report prepared by Westinghouse Electric Corporation for Neal's Dump. Results of groundwater monitoring samples for the months of May and June of 1991 are presented.

The results of the sample analysis show low levels of PCBs for the first time in monitoring wells 1D, 2D, 4D and 6B. Based on these findings, Westinghouse sampled nearby residential wells on July 17, 1991. No PCBs were found in these residential wells based on a PCB detection limit of 0.1 ppb. A copy of the analytical results of the residential well samples will be provided to each well user for their information.

If you have any questions regarding this report, please contact me on 812-334-0030.

Very truly yours,

Westinghouse Electric Corporation

James B. Patrick

Site Manager

cc: Letter only. Report submitted by direct correspondence

Rex Osborn - IDEM Dan Hopkins - USEPA

John Langley - City of Bloomington

Steve Creech - Monroe Co. Health Department

DATE/RECEIVED

JUL 2 o 1991

DEM

GROUND WATER MONITORING REPORT NEAL'S DUMP OWEN COUNTY, INDIANA

SEMI-ANNUAL PRE-REMOVAL MONITORING EVENT 6 OF 15 MAY 29-30, 1991

Prepared For:

Westinghouse Electric Corporation Environmental Systems and Services Division Pittsburgh, Pennsylvania 15220

Prepared By:

Westinghouse Environmental and Geotechnical Services, Inc. 3100 Spring Forest Road (27604)
Post Office Box 58069
Raleigh, North Carolina 27658-8069

July 1991



TABLE OF CONTENTS

Section No.	<u>Title</u>	Page No.
1.0	INTRODUCTION	•
2.0	METHODS	1
3.0	RESULTS	1.
TABLE 1a TABLE 1b TABLE 2 TABLE 3 TABLE 4 TABLE 5 TABLE 6 TABLE 7 TABLE 8 TABLE 9	GROUND WATER MONITORING RESULTS MAY 29, 1991 GROUND WATER MONITORING RESULTS JUNE 20, 1991 CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 1S CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 2S CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 5S CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 6B CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 1D CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 2D CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 4D CHRONOLOGY OF PCB ANALYTICAL RESULTS WELL 5D	2
FIGURE 3 FIGURE 4 APPENDIX A	UPPER SATURATED UNIT GROUND WATER CONTOUR MAP JUNE LOWER SATURATED UNIT POTENTIOMETRIC SURFACE MAP JUNE CERTIFICATE OF ANALYSIS - MAY 29-30, 1991	29, 1991



1.0 INTRODUCTION

Westinghouse Environmental and Geotechnical Services, Inc. (Westinghouse) performed ground water sampling at Neal's Dump in Owen County, Indiana, on May 29-30, 1991. The sampling event was the sixth of fifteen sampling events that will be used to establish baseline PCB concentrations in the on-site monitor wells.

This report contains the analytical results and field data associated with the sampling event. Also included are summary tables of the previous on-site sampling event. A ground water contour map of the shallow wells (Figure 1) and a potentiometric surface map of the lower saturated unit (Figure 2) were prepared from water levels measured immediately prior to the May 29, 1991 sample collection.

2.0 METHODS

Ground water samples were collected from eight monitor wells in accordance with approved sampling protocols. Prior to sample collection, the water level in each well was measured and the volume of water in well storage was calculated. Each well was then purged dry or until field parameters (temperature, pH, and specific conductance) stabilized to allow representative samples to be obtained.

Samples were collected upon completion of purging. Each sample was withdrawn with the dedicated bailer or tubing used to purge each respective well and added directly to the sample bottles.

The field parameters of the samples were also measured and recorded. For quality assurance purposes, a duplicate sample and a field blank were also collected.

All samples were labeled and logged onto a chain-of-custody form. These samples were stored and transported in insulated coolers containing wet ice. Custody of the water samples was maintained by Westinghouse until delivery to the analytical laboratory.

W

The water samples and quality assurance samples were analyzed by EMS Heritage Laboratories, Inc. in Indianapolis, Indiana. All PCB sample parameters were analyzed to a detection limit of 0.1 ppb by EPA Method 608/SW-846 Method 8080, except for Arochlor 1221 which had a detection limit of 0.5 ppb. Due to the high concentration of Arochlor 1016 found in the sample taken from monitor well 5S, the sample was diluted. In three samples, Arochlor 1016 is degraded. Please note these changes in the certificates of analysis in Appendix A.

3.0 RESULTS

Field measurements, PCB analytical results, and QA/QC results are included in Table 1. Historical PCB analytical results for individual wells are presented in Tables 2 through 9. Laboratory reports for the sampling event are included in Appendix A and Appendix B. All sampling field log sheets are in Appendix C and Appendix D.

The ground water contour map of the upper unconfined aquifer is presented as Figure 1. The uncontoured potentiometric surface of the lower saturated unit is shown in Figure 2. Representative contouring of this surface was not attempted due to the extremely small differences in water levels of the wells measured. However, ground water flow appears to be towards the west.





TABLES

TABLE 1a GROUND WATER MONITORING RESULTS NEAL'S DUMP BASELINE SAMPLING EVENT 5 OF 15 MAY 29, 1991

	MAI 23, 1331						•
WELL NUMBER	SAMPLE NUMBER	SAMPLING APPARATUS	GROUND WATER ELEVATION (FT ABOVE MSL)	TEMPERATURE (DEGREES C)	рН	SPECIFIC CONDUCTANCE (UMHOS)	CONCENTRATION SUM OF AROCHLORS (PPB)
"SHALLOW"	WELLS						
15	91ND05S08	PS	573.75	13.0	6.7	185	1.0
15*	91ND05D08	PS	573.75	13.0	6.7	185	0.21
25	91ND05S03	PS	579.93	15.2	8.7	330	BDL
5S	91ND05S01	В	573.99	13.9	10.0	240	93.0
FIELD BLANK	91ND05E01	N/A	N/A	N/A	N/A	N/A	BDL
6B	91ND05S05	В	573.22	13.2	7.0	440	0.12
"DEEP" WEL	LS						
1D	91ND05S07	В	549.21	13.8	>12	360	0.28
2D	91ND05S04	В	549.25	14.8	8.8	290	0.43
4D	91ND05S06	В	549.21	14.2	7.3	500_	0.63
5 <u>D</u>	91ND05S02	В	549.15	13.7	8.3	370	0.11

TABLE 1b GROUND WATER MONITORING RESULTS NEAL'S DUMP CONFIRMATION SAMPLING EVENT JUNE 20, 1991

	JUNE 20, 1991						
WELL NUMBER	SAMPLE Number	SAMPLING APPARATUS	GROUND WATER ELEVATION (FT ABOVE MSL)	TEMPERATURE (DEGREES C)	рН	SPECIFIC CONDUCTANCE (UMHOS)	CONCENTRATION SUM OF AROCHLORS (PPB)
"SHALLOW"	WELLS					<u> </u>	
18	91ND06S08	PS	572.87	14.8	8.8	190	BDL
15*	91ND06D08	PS	572.87	14.8	8.8	190	BDL
2\$	91ND06S03	PS	579.77	15.4	9.4	338	BDL
58	91ND06S01	В	573.05	13.8	7.6	_ 325	47.0
FIELD BLANK	91ND06E01	N/A	N/A	N/A	N/A	N/A	BDL
6B	N/A	N/A	DRY	N/A	N/A	N/A	N/A
"DEEP" WEL	LS						
1D	91ND06S07	В	548.81	14.3	>12	238	BDL
2D	91ND06S04	В	549.14	15.8	7.0	312	BDL
4D	91ND06S06	В	548.93	14.1	11.2	450	0.16
5D	91ND06S02	В	548.87	14.4	11.0	400	0.11

TABLE 2 CHRONOLOGY OF PCB ANALYTICAL RESULTS NEAL'S DUMP OWEN COUNTY, INDIANA WELL 1S

DATE SAMPLED	PCB CONCENTRATION (PPB)
20-May-87	5.4
03-May-89	0.25/0.18
07-Nov-89	0.26/0.16
01-May-90	BDL
06-Nov-90	BDL/0.36
29-May-91	1.0/0.21
20-Jun-91	BDL/BDL

BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

TABLE 3 CHRONOLOGY OF PCB ANALYTICAL RESULTS NEAL'S DUMP OWEN COUNTY, INDIANA WELL 2S

WEEL EO		
DATE SAMPLED	PCB CONCENTRATION (PPB)	
19-May-87	ND	
03-May-89	ND	
07-Nov-89	BDL	
01-May-90	BDL	
06-Nov-90	BDL	
29-May-91	BDL	
20-Jun-91	BDL	

ND = NOT DETECTED AT 0.1 PPB

BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

TABLE 4 CHRONOLOGY OF PCB ANALYTICAL RESULTS NEAL'S DUMP OWEN COUNTY, INDIANA WELL 5S

TELE 00				
DATE SAMPLED	PCB CONCENTRATION (PPB)			
19-May-87	210.0			
03-May-89	22.0			
. 07-Nov-89	89.0			
01-May-90	180			
06-Nov-90	69.0			
30-May-91	93.0			
20-Jun-91	47.0			

TABLE 5 CHRONOLOGY OF PCB ANALYTICAL RESULTS NEAL'S DUMP OWEN COUNTY, INDIANA WELL 6B DATE SAMPLED PCB CONCENTRATION (PPB) 19-May-87 ND 03-May-89 ND 07-Nov-89 BDL 01-May-90 BDL

DRY

0.12

DRY

ND = NOT DETECTED AT 0.1 PPB

BDL = BELOW DETECTION LIMIT OF 0.1 PPB

06-Nov-90

30-May-91 20-Jun-91

(0.5 PPB FOR AROCHLOR 1221)

DRY = WELL WAS DRY, NO SAMPLE WAS TAKEN

TABLE 6 CHRONOLOGY OF PCB ANALYTICAL RESULTS NEAL'S DUMP OWEN COUNTY, INDIANA WELL 1D				
DATE SAMPLED	PCB CONCENTRATION (PPB)			
19-May-87	ND			
03-May-89	ND			
07-Nov-89	BDL			
01-May-90	BDL			
06-Nov-90	BDL			
29-May-91	0.28			
20-Jun-91	BDL			

ND = NOT DETECTED AT 0.1 PPB BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

TABLE 7 CHRONOLOGY OF PCB ANALYTICAL RESULTS **NEAL'S DUMP** OWEN COUNTY, INDIANA WELL 2D DATE SAMPLED PCB CONCENTRATION (PPB) ND 20-May-87 03-May-89 ND **BDL** 07-Nov-89 01-May-90 **BDL** 06-Nov-90 **BDL** 0.43 29-May-91 20-Jun-91 **BDL**

ND = NOT DETECTED AT 0.1 PPB BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

TABLE 8 CHRONOLOGY OF PCB ANALYTICAL RESULTS **NEAL'S DUMP** OWEN COUNTY, INDIANA WELL 4D DATE SAMPLED PCB CONCENTRATION (PPB) 19-May-87 ND ND 03-May-89 07-Nov-89 **BDL** BDL 01-May-90 06-Nov-90 BDL 0.63 29-May-91

0.16

ND = NOT DETECTED AT 0.1 PPB

BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

20-Jun-91

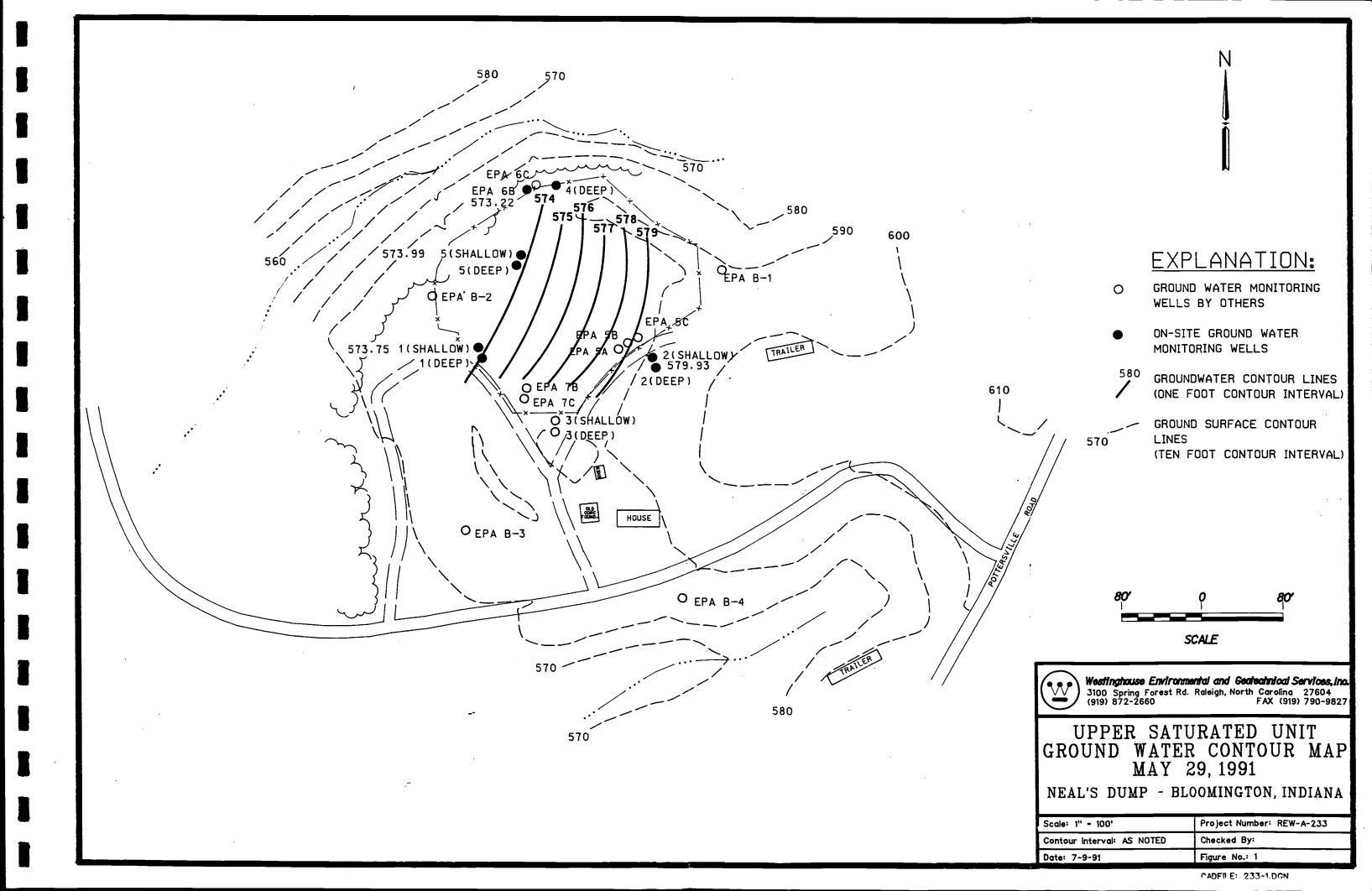
TABLE 9 CHRONOLOGY OF PCB ANALYTICAL RESULTS **NEAL'S DUMP** OWEN COUNTY, INDIANA WELL 5D

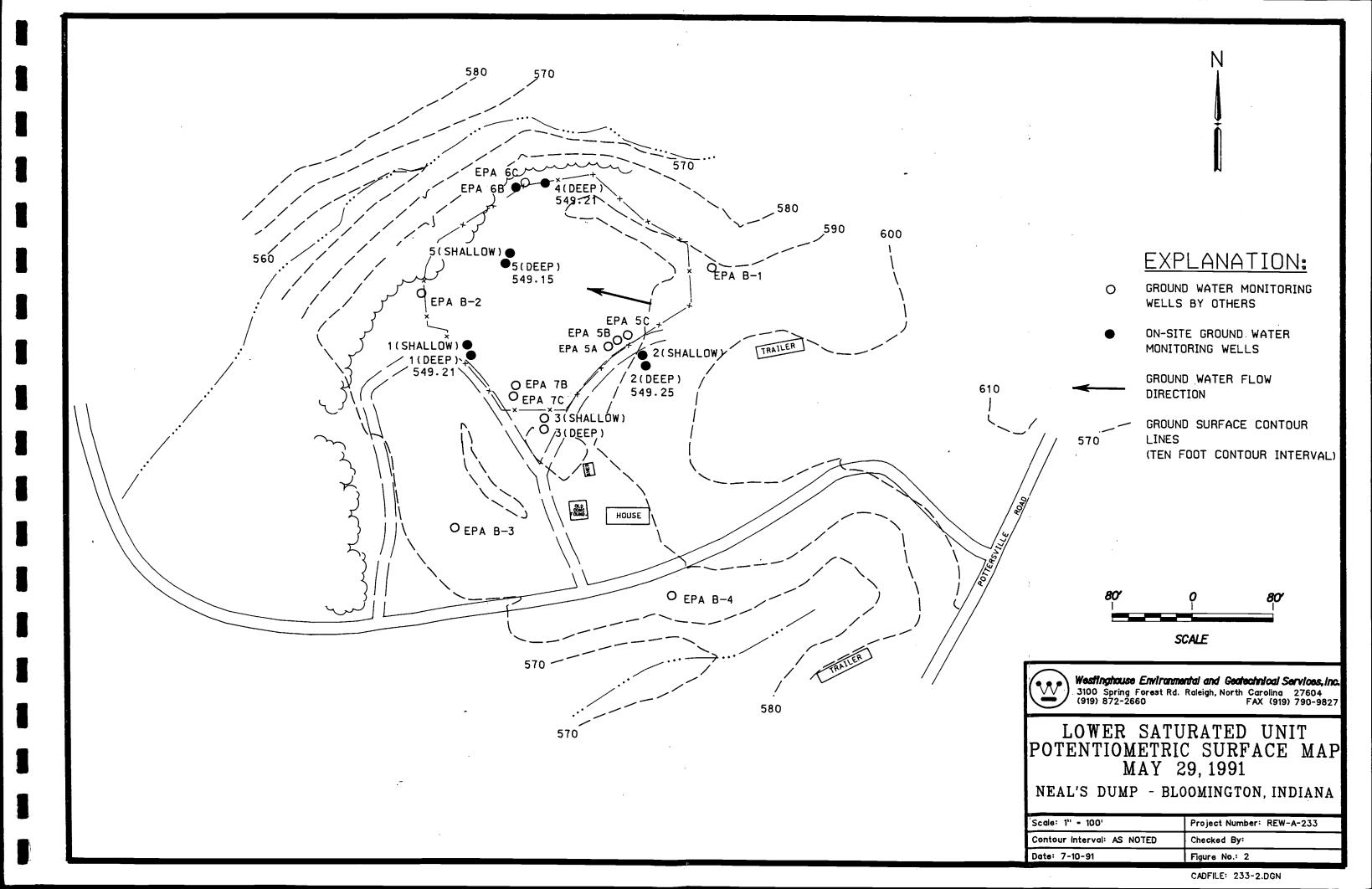
MELL 3D				
DATE SAMPLED	PCB CONCENTRATION (PPB)			
19-May-87	0.5/0.7			
03-May-89	ND			
07-Nov-89	BDL			
01-May-90	BDL			
06-Nov-90	BDL			
29-May-91	0.11			
20-Jun-91	0.11			

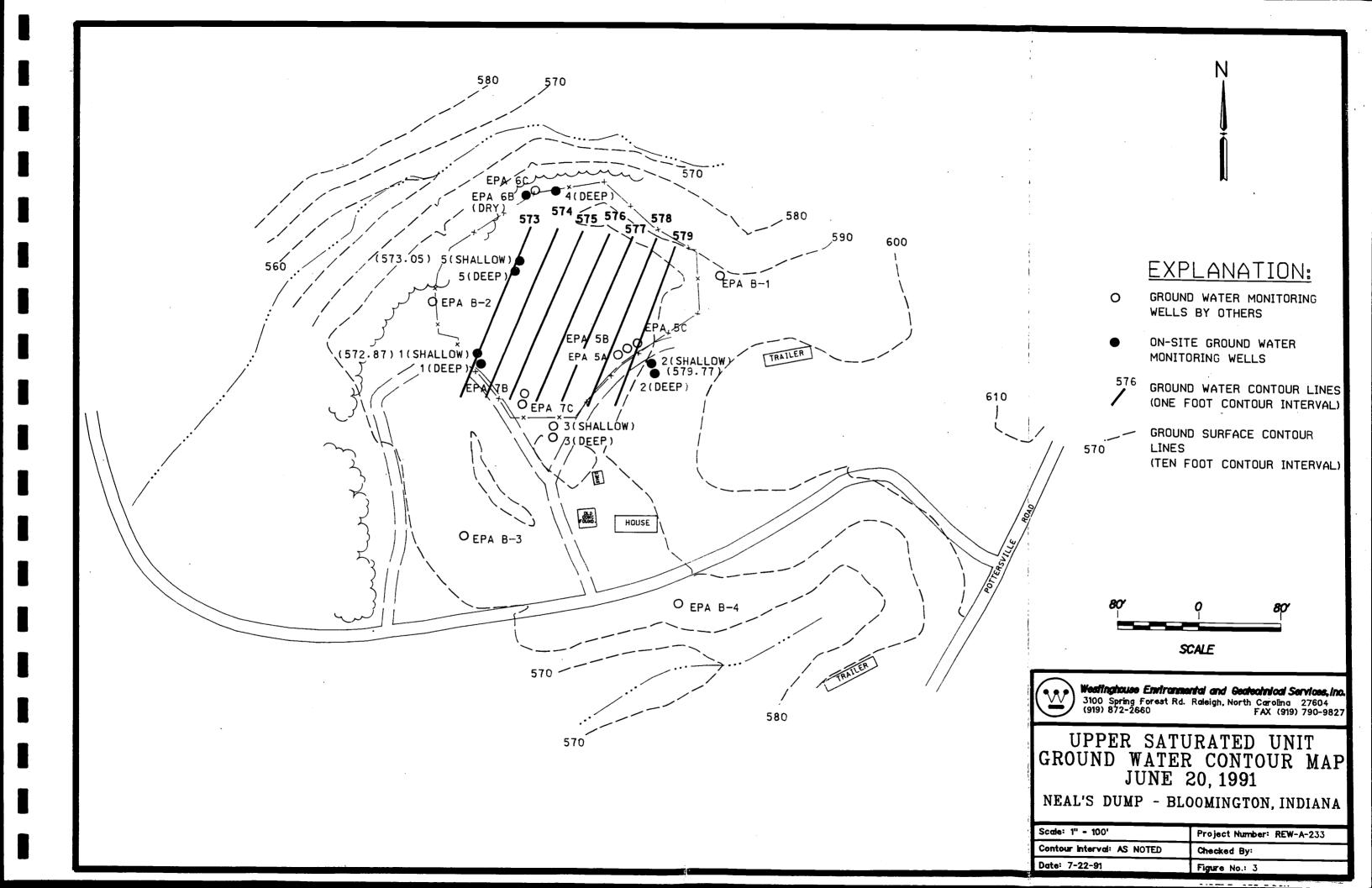
ND = NOT DETECTED AT 0.1 PPB BDL = BELOW DETECTION LIMIT OF 0.1 PPB (0.5 PPB FOR AROCHLOR 1221)

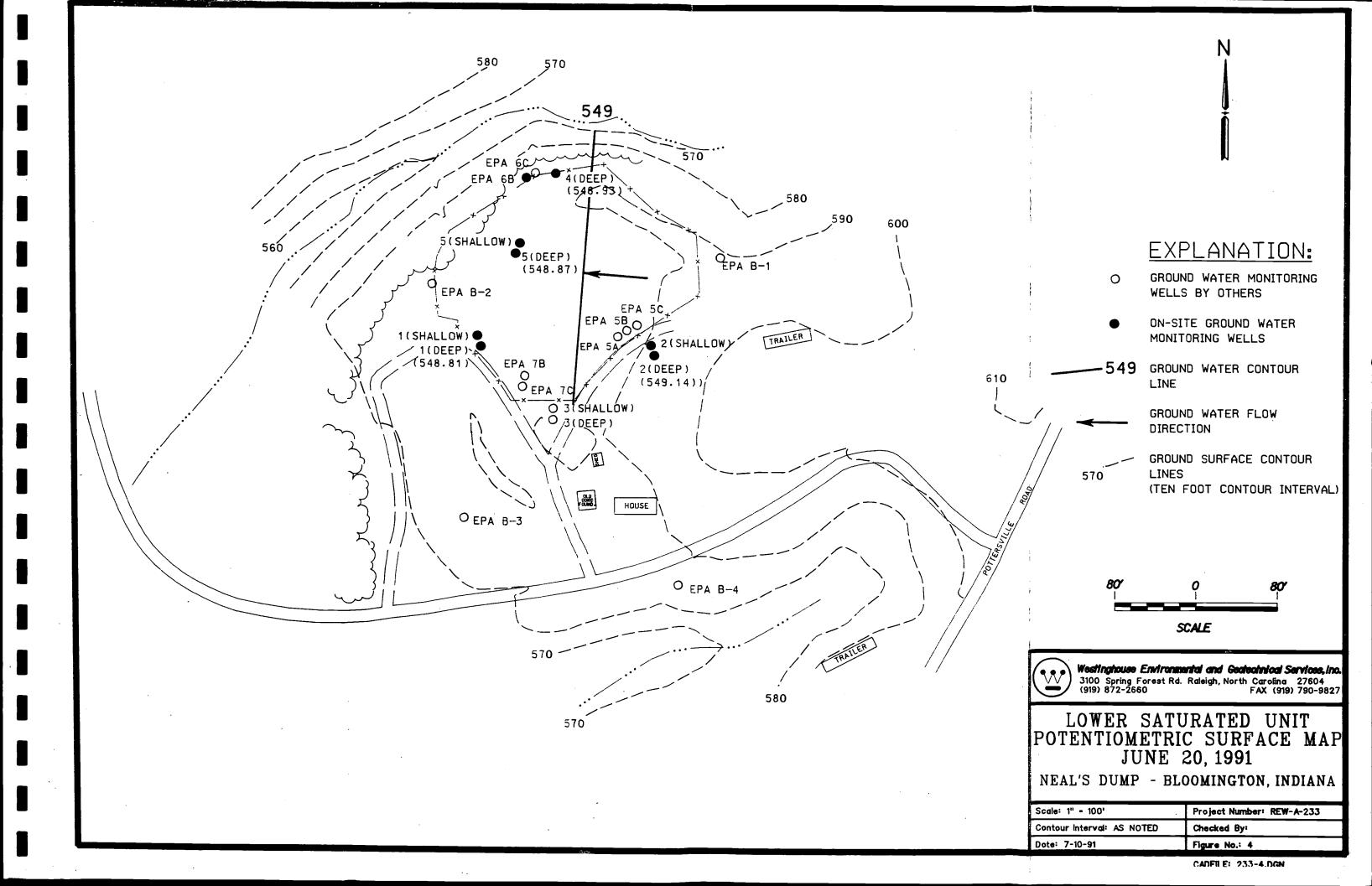


FIGURES











APPENDIX A

GERTIFICATE OF ANALYSIS ...

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 30-MAY-91	Lab ID A230853
	Complete 13-JUN-91	PO Number RN-21421-S
	Printed 14-JUN-91	Sampled 29-MAY-91 13:30

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND05S08

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-15

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04	4-JUN-91	Test: P904.1	. 0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	1070 5	Det. Limit	units mL mL
CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP S Analyst: L. DOBBINS Analysis Date: 07 Prep: CLP PCB EXTRACTION CLP SOW 2/88	SOW 2/88 7-JUN-91 Instrument: GC/ECD	Test: 0904.1	. 0

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mq/L
PCB AROCHLOR 1242	0.0010	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	0001	mg/L

BDL Below Detection Limit

Sample Comments

No eterson

CERTIFICATE OF ANALYSIS.

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 30-MAY-91	Lab 10 A230854
	Complete	PO Number
	13-JUN-91	RN-21421-S
()	Printed	Sampled
	14-JUN-91	<u>29-MAY-91 13:30</u>

Report To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069

3100 SPRING FOREST ROAD RALEIGH, NC 27658

Bill To

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND05D08

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-15 (DUPLICATE)

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-9	1	Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 1070 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD

Prep: CLP PCB EXTRACTION CLP SOW 2/88

Instrument: GC/ECD Test: 0904.1. 0

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	,
PCB AROCHLOR 1242	0.00021		mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	1	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	0001	mg/L

BDL Below Detection Limit

Sample Comments

Quality Assurance Officer:

Detuson

CERTIFICATE OF ANALYSIS

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC.	30-MAY-91	A230850
7901 W. MORRIS ST.	Complete	PO Number
INDIANAPOLIS, IN 46231	13-JUN-91	RN-21421-S
(317)243-8305	Printed	Sampled
	14-JUN-91	29-MAY-91 12:30

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND05S03

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-25

CLP PCB EXTRACTION CLP SOW 2,	/88			
Analyst: D. BLUE	Analysis Date: 03-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	1000 5	Result	Det. Limit	units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0

Prep: CLP PCB EXTRACTION CLP SOW 2/88

- 1			·		
		Parameter	Result	Det. Limit	Units
	CB AROCHLOR 1016		BDL	.0001	mg/L
P	CB AROCHLOR 1221		BDL	.0005	mg/L
PI PI	CB AROCHLOR 1232		BDL	.0001	mg/L
P	CB AROCHLOR 1242		BDL	.0001	mg/L
P	CB AROCHLOR 1248		BDL	.0001	mg/L
P	CB AROCHLOR 1254		BDL	.0001	mg/L
	CB AROCHLOR 1260		BDL	.0001	mg/L
	CB AROCHLOR 1262		BDL	.0001	
				0001	mg/L

Sample Comments

BDL Below Detection Limit

Mellion

Service Location		Received	 Lab	ID
EMS HERITAGE LABORATORIES, INC.		30-MAY-91	A23	0857
7901 W. MORRIS ST.		Complete		umber
INDIANAPOLIS, IN 46231		13-JUN-91	RN-21	421-S
(317)243-8305		Printed	Samp	led
		14-JUN-91	30-MAY-	91 09:10
Report To		Bill To	,	•
WESTINGHOUSE ENV AND GEO SERVICES, I SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	ACCOUN P.O. E ONE CI	INGTON PROJEC NTS PAYABLE BOX 997 ITY CENTRE - INGTON, IN 47	SUITE 210	
San DESCRIPT ION: 91NDO5 S01 BLANKET ORDER RELEASE #: NOT RECEIV	pie Description ED WITH ORDER	ND - 55		
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 0	4- Jun-91		Test: P904.1.	. 0
Parameter	Resu	ult	Det. Limit	Units
NITIAL WEIGHT OR VOLUME INAL VOLUME	1070			mL
TINAL VOLUME	1 5			l mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CL Analyst: L. DOBBINS Analysis Date Prep: CLP PCB EXTRACTION CLP SOW 2/88	P SOW 2/88 e: 07-JUN-91 Instrument: GC/ECD	Test: 0904.1.	0
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.093	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDI	.0001	mg/L
NOTE: SAMPLE DILUTED DUE TO HIGH CONCENT	TRATION OF PCBS	.0001	ing/ L

Sample Comments

BDLBelow Detection Limit

Quality Assurance Officer:

Service Location	Received	Lab ID
EMS HERITAGE LABORATORIES, INC.	30-MAY-91	A230856
7901 W. MORRIS ST.	Complete	PO Number
INDIANAPOLIS, IN 46231 (317)243-8305	13-JUN-91	RN-21421-S
(317)243-0303	Printed	Sampled
	14-JUN-91	29-MAY-91 13:45
<u></u>		
Report To	Bill T	0
WESTINGHOUSE ENV AND GEO SERVICES, INC.	BLOOMINGTON PROJEC	:T
SCOTT BERG	ACCOUNTS PAYABLE	•
P.O. BOX 58069	P.O. BOX 997	
3100 SPRING FOREST ROAD	ONE CITY CENTRE -	SUITE 210
RALEIGH, NC 27658	BLOOMINGTON, IN 47	

DESCRIPTION: 91ND05E01
BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

FIELD BLANK

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-9	1	Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 1070 5	Det. Limit	Units ML ML
CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2 Analyst: L. DOBBINS Analysis Date: 07-JUN-9 Prep: CLP PCB EXTRACTION CLP SOW 2/88		Test: 0904.1.	0
PCB AROCHLOR 1016 PCB AROCHLOR 1221 PCB AROCHLOR 1232 PCB AROCHLOR 1242 PCB AROCHLOR 1248 PCB AROCHLOR 1254 PCB AROCHLOR 1260 PCB AROCHLOR 1262	Result BDL	Det. Limit .0001 .0005 .0001 .0001 .0001 .0001	Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L

Sample Comments

BDL Below Detection Limit

GERTIFICATE OF ANALYSIS

Service Location Received Lab ID EMS HERITAGE LABORATORIES, INC. 30-MAY-91 A230858 7901 W. MORRIS ST. Complete PO Number INDIANAPOLIS, IN 46231 13-JUN-91 RN-21421-S (317)243-8305 Printed Sampled 14-JUN-91 30-MAY-91 09:20

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND05S05

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-6B

CLP PCB EXTRACTION CLP SOW 2	2/88 Analysis Date: 04-JUN-91		T	
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	1090	Result	Test: P904.1. Det. Limit	Units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD

Prep: CLP PCB EXTRACTION CLP SOW 2/88

Test: 0904.1. 0

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	0.00012	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	
PCB AROCHLOR 1262	BDL	.0001	mg/L
NOTE: AROCHLOR 1016 IS DEGRADED		0001	mg/L

NOTE: AKOCHLOK 1010 12 DEGKADED

Sample Comments

BDL Below Detection Limit

Delesson

GERTIFICATE OF AMALYSIS

Service Location Received Lab ID EMS HERITAGE LABORATORIES, INC. 30-MAY-91 A230852 7901 W. MORRIS ST. Complete PO Number INDIANAPOLIS, IN 46231 13-JUN-91 RN-21421-S (317)243-8305 Printed Sampled 14-JUN-91 29-MAY-91 13:15 Report To Bill To WESTINGHOUSE ENV AND GEO SERVICES, INC. BLOOMINGTON PROJECT SCOTT BERG ACCOUNTS PAYABLE P.O. BOX 58069 P.O. BOX 997 3100 SPRING FOREST ROAD ONE CITY CENTRE - SUITE 210 RALEIGH, NC 27658 BLOOMINGTON, IN 47402-0997 Sample Description DESCRIPTION: 91NDO5S07 BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER ND-ID CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 03-JUN-91 Test: P904.1. 0 Parameter Result Det. Limit Units INITIAL WEIGHT OR VOLUME 1030 mL FINAL VOLUME mL CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter Result Det. Limit Units PCB AROCHLOR 1016 0.00028 .0001 mq/L PCB AROCHLOR 1221 BDL .0005 mq/L PCB AROCHLOR. 1232 BDL .0001 mg/L PCB AROCHLOR 1242 BDL .0001 mq/L PCB AROCHLOR 1248 **BDL** .0001 mg/L PCB AROCHLOR 1254 BDL .0001 mq/L PCB AROCHLOR 1260 **BDL** .0001 mq/L PCB AROCHLOR 1262 **BDL** .0001 | mg/L NOTE: AROCHLOR 1016 IS DEGRADED.

BDL Below Detection Limit

Sample Comments

Quality Assurance Officer:

eterson

CERTIFICATE O	FANALYS	I S	. ,	
Service Location	Rec	eived	Lab I	n
EMS HERITAGE LABORATORIES, INC.	30-M	AY-91	A2308	_
7901 W. MORRIS ST.		olete	PO Num	
INDIANAPOLIS, IN 46231	13-J	UN-91	RN-2142	
(317)243-8305		ited	Sample	
	14-J	JN-91	29-MAY-91	
Report To		Bill To		•
WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	BLOOMINGTON ACCOUNTS PA P.O. BOX 99 ONE CITY CE BLOOMINGTON	YABLE 7 NTRE - SUI	TE 210 -0997	
Sample Descr DESCRIPTION: 91ND05S04 BLANKET ORDER RELEASE #: NOT RECEIVED WITH	15	20		
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Date: 04-JUN-91		Tes	st: P904.1. 0)
Parameter	Result	Det	. Limit	Units
INITIAL WEIGHT OR VOLUME	990			mL
INAL VOLUME	5			mL
CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/8 Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88	8 Instrument: GC/ECD	Tes	t: 0904.1. 0	<u> </u>

	Parameter	Result	Det. Limit	Units
	PCB AROCHLOR 1016	0.00043	.0001	mg/L
	PCB AROCHLOR 1221	BDL	.0005	mg/L
	PCB AROCHLOR 1232	BDL	.0001	mg/L
	PCB AROCHLOR 1242	BDL	.0001	mg/L
	PCB AROCHLOR 1248	BDL	.0001	mg/L
	PCB AROCHLOR 1254	BDL	.0001	mg/L
	PCB AROCHLOR 1260	BDL	.0001	mg/L
L	PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments

BDL Below Detection Limit

Dicterson

	Printed 14-JUN-91	RN-21421-S Sampled 29-MAY-91 12:15
Report to WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069	BLOOMINGTON PROJECT ACCOUNTS PAYABLE	
3100 SPRING FOREST ROAD RALEIGH, NC 27658	P.O. BOX 997 ONE CITY CENTRE - SUI BLOOMINGTON, IN 47402	TE 210 2-0997

OI D	000	SVTD LOTTON		
LLP	PUB	EXTRACTION	CLP SOW	2/88

Analyst: D. BLUE	Analysis Date: 04-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME		Result 1080 5	Det. Limit	Units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: L. DOBBINS Analysis Date: 07-JUN-91 Instrument: GC/ECD Prep: CLP PCB EXTRACTION CLP SOW 2/88 Test: 0904.1. 0

Parameter Result Det. Limit Units PCB AROCHLOR 1016 0.00063 .0001 mg/L PCB AROCHLOR 1221 BDL .0005 mq/L PCB AROCHLOR 1232 BDL .0001 mg/L PCB AROCHLOR 1242 BDL .0001 mg/L PCB AROCHLOR 1248 BDL .0001 mg/L PCB AROCHLOR 1254 BDL .0001 mg/L PCB AROCHLOR 1260 BDL .0001 mg/L PCB AROCHLOR 1262 **BDL** 0001 mq/L

Below Detection Limit BDL

Sample Comments

CERTIFICATE OF ANALYSTS

Service Location FMS HEDITAGE LARODATORIES THE	Rece	1	Lab	10
EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST.	30-MA		A23	<u>0855</u>
INDIANAPOLIS, IN 46231	Compi			umber
(317)243-8305	13-JU		RN-21	
	14-JU		Samp	
		N-91 1	29-MAY-	91 13:40
Report To		Bill To		
WESTINGHOUSE ENV AND GEO SERVIC SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658	CES, INC. BLOOMINGTON ACCOUNTS PAY P.O. BOX 997 ONE CITY CEN BLOOMINGTON,	ABLE TRE - S	SUITE 210	
DESCRIPTION: 91ND05S02	Sample Description			
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88				
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Da	CEIVED WITH ORDER ND-S		Test: P904.1.	0
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Da Parameter	ate: 04-JUN-91 Result		Test: P904.1.	Units
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Analysis Da	ate: 04-Jun-91	<u> </u>		
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Analysis Da Prep: CLP PCB EXTRACTION CLP SOW 2/88	Result 1050 5	<u> </u>		Units mL mL
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8	5 D	Det. Limit Test: 0904.1. Det. Limit	Units mL mL
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Analysis Da Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter CB AROCHLOR 1016	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011	2 D	Det. Limit Test: 0904.1. Det. Limit .0001	Units mL mL
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter CB AROCHLOR 1016 CB AROCHLOR 1221	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL	2 D	Test: 0904.1. Det. Limit .0001 .0005	Units mL mL o units mg/L mg/L
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) (Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88 CB AROCHLOR 1016 CB AROCHLOR 1221 CB AROCHLOR 1232	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL BDL BDL	2 D	Test: 0904.1. Det. Limit .0001 .0005 .0001	Units mL mL O Units mg/L mg/L mg/L mg/L
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter CB AROCHLOR 1016 CB AROCHLOR 1221 CB AROCHLOR 1232 CB AROCHLOR 1242	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL BDL BDL BDL BDL	2 D	Det. Limit Test: 0904.1. Det. Limit .0001 .0001	Units mL mL O units mg/L mg/L mg/L mg/L mg/L
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter NITIAL WEIGHT OR VOLUME INAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter CB AROCHLOR 1016 CB AROCHLOR 1221 CB AROCHLOR 1232 CB AROCHLOR 1242 CB AROCHLOR 1248	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL BDL BDL BDL BDL BDL BDL	<u> </u>	Det. Limit Test: 0904.1. Det. Limit .0001 .0001 .0001	Units mL mL o units mg/L mg/L mg/L mg/L mg/L mg/L
CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter INITIAL WEIGHT OR VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter CB AROCHLOR 1016 CB AROCHLOR 1221 CB AROCHLOR 1232 CB AROCHLOR 1242 CB AROCHLOR 1248 CB AROCHLOR 1254 CB AROCHLOR 1254 CB AROCHLOR 1254 CB AROCHLOR 1256	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL	2 D	Test: 0904.1. Det. Limit .0001 .0005 .0001 .0001 .0001	Units mL mL O Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L
BLANKET ORDER RELEASE #: NOT RE CLP PCB EXTRACTION CLP SOW 2/88 Analyst: D. BLUE Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME CLP POLYCHLORINATED BIPHENYLS (PCBS) Analyst: L. DOBBINS Analysis Da Prep: CLP PCB EXTRACTION CLP SOW 2/88	Result 1050 5 CLP SOW 2/88 ate: 07-JUN-91 Instrument: GC/ECD 8 Result 0.00011 BDL BDL BDL BDL BDL BDL BDL	2 D	Det. Limit Test: 0904.1. Det. Limit .0001 .0001 .0001	Units mL mL o units mg/L mg/L mg/L mg/L mg/L mg/L

BDL Below Detection Limit

Sample Comments

Leterson



APPENDIX B

CERTIFICATE OF ANALYSIS

Service Location EMS HERITAGE LABORATORIES, INC.	Received 21-JUN-91	Lab ID A232491
7901 W. MORRIS ST. INDIANAPOLIS, IN 46231	Complete 28-JUN-91	PO Number RN-21421-S
(317)243-8305	Printed	Sampled
	29-JUN-91	20-JUN-91 16:00

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S08

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-15

\parallel CLP PCB EXTRACTION CLP SOW 2/88	8		
Analyst: D. BLUE	nalysis Date: 25-JUN-91	Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	970 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analysis Date: 26-JUN-91 Instrument: GC/ECD Prep: CLP PCB EXTRACTION CLP SOW 2/88 Analyst: E. WERNZ Test: 0904.1. 0

TTOP: OLI TOD EXTINOTION OLI SOW 2/00		
Parameter	Result	Det. Limit Units
PCB AROCHLOR 1016	BDL	.0001 mg/L
PCB AROCHLOR 1221	BDL	.0005 mg/L
PCB AROCHLOR 1232	BDL	.0001 mg/L
PCB AROCHLOR 1242	BDL	.0001 mg/L
PCB AROCHLOR 1248	BDL	.0001 mg/L
PCB AROCHLOR 1254	BDL	.0001 mg/L
PCB AROCHLOR 1260	BDL	.0001 mg/L
PCB AROCHLOR 1262	BDL	.0001 mg/L

Sample Comments

Below Detection Limit BDL

Service Location EMS_HERITAGE_LABORATORIES, INC.	Received 21-JUN-91	Lab ID A232492
7901 W. MORRIS ST. INDIANAPOLIS, IN 46231	Complete 28-JUN-91	PO Number RN-21421-S
(317) 2 43-83 05	Printed	Sampled
	29-JUN-91	20-JUN-91 16:00

Report To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG
P.O. BOX 58069
3100 SPRING FOREST ROAD
RALEIGH, NC 27658

Bill To

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06D08

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-15 (Duplicate)

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: R. MCKAIN Analysis Date: 25-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 1000 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter Result Det. Limit Units PCB AROCHLOR 1016 BDL .0001 mg/L PCB AROCHLOR 1221 BDL .0005 mg/L PCB AROCHLOR 1232 BDL .0001 mg/L PCB AROCHLOR 1242 BDL .0001 mg/L PCB AROCHLOR 1248 BDL .0001 mg/L PCB AROCHLOR 1254 BDL .0001 mg/L PCB AROCHLOR 1260 BDL .0001 mg/L PCB AROCHLOR 1262 **BDL** .0001 mg/L

Sample Comments

BDL Below Detection Limit

Deterson

Service Location Received Lab ID EMS HERITAGE LABORATORIES, INC. 21-JUN-91 A232489 7901 W. MORRIS ST. Complete PO Number INDIANAPOLIS, IN 46231 28-JUN-91 RN-21421-S (317)243-8305 Printed Sampled 29-JUN-91 20-JUN-91 14:50

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG
P.O. BOX 58069
3100 SPRING FOREST ROAD
RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S03

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND - 25

CLP PCB EXTRACTION CLP SOW 2	/88			
Analyst: R. MCKAIN	Analysis Date: 25-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME		Result 1000 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD

Prep: CLP PCB EXTRACTION CLP SOW 2/88

Test: 0904.1, 0

' 				
	Parameter	Result	Det. Limit	Units
	AROCHLOR 1016	BDL	.0001	mq/L
PCB	AROCHLOR 1221	BDL	.0005	mg/L
' PCE	AROCHLOR 1232	BDL	.0001	mg/L
PCB	AROCHLOR 1242	BDL	.0001	mg/L
I PCE	AROCHLOR 1248	BDL	.0001	mq/L
PCB	AROCHLOR 1254	BDL	.0001	mq/L
	AROCHLOR 1260	BDL		, .
	AROCHLOR 1262	l .	.0001	mg/L
100	ANOCHEON TEOE	BDL	.0001	mg/L

Sample Comments

BDL Below Detection Limit

De eterson

Service Location Received Lab ID EMS HERITAGE LABORATORIES, INC. 21-JUN-91 A232495 7901 W. MORRIS ST. Complete PO Number INDIANAPOLIS, IN 46231 28-JUN-91 RN-21421-S (317)243-8305 Printed Sampled 29-JUN-91 21-JUN-91 08:30

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S01

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-55

CLP PCB EXTRACTION CLP SOW 2,	/88		
Analyst: D. BLUE	Analysis Date: 25-JUN-91	Test:	P 904.1. 0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	930 5	ult Det. L	imit Units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0

Prep: CLP PCB EXTRACTION CLP SOW 2/88

,				
	Parameter	Result	Det. Limit	Units
	PCB AROCHLOR 1016	0.047	.0001	mg/L
l	PCB AROCHLOR 1221	BDL	. 0005	mg/L
•	PCB AROCHLOR 1232	BDL	.0001	mg/L
	PCB AROCHLOR 1242	BDL	.0001	mq/L
	PCB AROCHLOR 1248	BDL	.0001	mq/L
	PCB AROCHLOR 1254	BDL	.0001	mg/L
	PCB AROCHLOR 1260	BDL	.0001	mq/L
ı	PCB AROCHLOR 1262	BDL	.0001	mg/L
	MOTE . SAMPLE DILLITED 1.10 DUE TO LITCH A		146 05001050	i iii y / L

NOTE: SAMPLE DILUTED 1:10 DUE TO HIGH AROCHLOR 1016 LEVEL AROCHLOR WAS DEGRADED

Sample Comments

BDL Below Detection Limit

Releison

Service Location Received Lab ID EMS HERITAGE LABORATORIES, INC. 21-JUN-91 A232496 7901 W. MORRIS ST. Complete PO Number INDIANAPOLIS, IN 46231 28-JUN-91 RN-21421-S (317)243-8305 Printed Sampled 29-JUN-91 21-JUN-91 08:30

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06E01

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

FIELD BLANK

CLP PCB EXTRACTION CLP SOW 2/	′88			
Analyst: R. MCKAIN	Analysis Date: 25-JUN-91		Test: P904.1.	0
INITIAL WEIGHT OR VOLUME FINAL VOLUME	980 5	Result	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0

Prep: CLP PCB EXTRACTION CLP SOW 2/88

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0001	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 1262	BDL	.0001	mg/L

Sample Comments

BDL Below Detection Limit

De eterson

Service Location EMS HERITAGE LABORATORIES, INC.	Received 21-JUN-91	Lab ID A232490
7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Complete 28-JUN-91	PO Number RN-21421-S
	Printed 29-JUN-91	Sampled 20-JUN-91 15:00

Report To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG

P.O. BOX 58069 3100 SPRING FOR

3100 SPRING FOREST ROAD RALEIGH, NC 27658

Bill To

BLOOMINGTON PROJECT ACCOUNTS PAYABLE

P.O. BOX 997

ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S07

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-ID

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE Analysis Date: 25-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 890 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD

Prep: CLP PCB EXTRACTION CLP SOW 2/88

Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.0001	mg/L
PCB AROCHLOR 1221	BDL	.0005	mg/L
PCB AROCHLOR 1232	BDL	.0 0 01	mg/L
PCB AROCHLOR 1242	BDL	.0001	mg/L
PCB AROCHLOR 1248	BDL	.0001	mg/L
PCB AROCHLOR 1254	BDL	.0001	mg/L
PCB AROCHLOR 1260	BDL	.0001	mg/L
PCB AROCHLOR 12 6 2	BDL	.0001	mg/L
		10001	3/ =

Sample Comments

BDL Below Detection Limit

De eterson

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-JUN-91 Complete 28-JUN-91 Printed	Lab ID A232488 PO Number RN-21421-S Sampled
	29-JUN-91	20-JUN-91 14:15

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S04

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND - 20

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: R. MCKAIN Analysis Date:	25-JUN-91	Test: P904.1	. 0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	1000 5	Det. Limit	Units mL mL

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD Test: 0904.1. 0 Prep: CLP PCB EXTRACTION CLP SOW 2/88 Parameter Result Det. Limit Units PCB AROCHLOR 1016 **BDL** .0001 mg/L PCB AROCHLOR 1221 BDL .0005 mg/L PCB AROCHLOR 1232 BDL .0001 mg/L PCB AROCHLOR 1242 BDL .0001 mq/L PCB AROCHLOR 1248 **BDL** .0001 mq/L PCB AROCHLOR 1254 BDL .0001 mq/L PCB AROCHLOR 1260 **BDL** .0001 mg/L PCB AROCHLOR 1262 **BDL** .0001 mq/L EMULSION DURING PREP MAY HAVE CONTRIBUTED TO LOW SURROGATE RECOVERY

Sample Comments

BDL Below Detection Limit

Peterson

790 IND	Service Location HERITAGE LABORATORIES, INC. L.W. MORRIS ST. IANAPOLIS, IN 46231 7)243-8305	Received 21-JUN-91 Complete 28-JUN-91 Printed 29-JUN-91	Lab ID A232493 PO Number RN-21421-S Sampled 20-JUN-91 16:00
			<u> </u>

Report To

SCOTT BERG

WESTINGHOUSE ENV AND GEO SERVICES, INC.

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997

ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Bill To

P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

Sample Description

DESCRIPTION: 91ND06S06

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-40

CLP PCB EXTRACTION CLP SOW 2/88 Analyst: R. MCKAIN Analysis Date: 25-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 1000 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/8 Analyst: E. WERNZ Analysis Date: 26-JUN-91 Prep: CLP PCB EXTRACTION CLP SOW 2/88	8 Instrument: GC/ECD	Test: 0904.1.	0
PCB AROCHLOR 1016 PCB AROCHLOR 1221 PCB AROCHLOR 1232 PCB AROCHLOR 1242 PCB AROCHLOR 1248 PCB AROCHLOR 1254 PCB AROCHLOR 1260 PCB AROCHLOR 1262	Result BDL BDL O.00016 BDL BDL BDL BDL BDL BDL	Det. Limit .0001 .0005 .0001 .0001 .0001 .0001	Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L

Sample Comments

Below Detection Limit BDL

Service Location EMS HERITAGE LABORATORIES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8305	Received 21-JUN-91 Complete 28-JUN-91 Printed	Lab ID A232494 PO Number RN-21421-S Sampled
	<u> 29-JUN-91 </u>	2 0 -JUN-91 16:15

Report To

Bill To

WESTINGHOUSE ENV AND GEO SERVICES, INC. SCOTT BERG P.O. BOX 58069 3100 SPRING FOREST ROAD RALEIGH, NC 27658

BLOOMINGTON PROJECT ACCOUNTS PAYABLE P.O. BOX 997 ONE CITY CENTRE - SUITE 210 BLOOMINGTON, IN 47402-0997

Sample Description

DESCRIPTION: 91ND06S02

BLANKET ORDER RELEASE #: NOT RECEIVED WITH ORDER

ND-50

CLP PCB EXTRACTION CLP SOW 2/88			
Analyst: D. BLUE Analysis Date: 25-JUN-91		Test: P904.1.	0
Parameter INITIAL WEIGHT OR VOLUME FINAL VOLUME	Result 1030 5	Det. Limit	Units ML ML

CLP POLYCHLORINATED BIPHENYLS (PCBS) CLP SOW 2/88

Analyst: E. WERNZ Analysis Date: 26-JUN-91 Instrument: GC/ECD

Prep: CLP PCB EXTRACTION CLP SOW 2/88

nt: GC/ECD Test: 0904.1. 0

1 2011 2011 27 30			
Parameter	Result	Det. Limit	Units
PCB AROCHLOR 1016	BDL	.00 0 1 mg	/ I
PCB AROCHLOR 1221	BDL	.0005 mg	•
PCB AROCHLOR 1232	BDL	.0001 mg	•
PCB AROCHLOR 1242	0.00011	.0001 mg	•
PCB AROCHLOR 1248	BDL		•
PCB AROCHLOR 1254	BDL		•
PCB AROCHLOR 1260	1	.0001 mg	•
PCB AROCHLOR 1262	BDL	.0001 mg	•
FCD AROCHEOR 1202	BDL	0001 mg	<u>/L</u>

BDL Below Detection Limit

Sample Comments

Quality Assurance Officer: _

Deleisen



APPENDIX C

SiteND		Wel	1 No.	5
Sampling Purpo			·	
Date/Time:		In_	010	
Sampling Perso		U RH RURT	. 1/= 0/.	
HNu Background	Well	W	eather Hr Clin	of
I. Well Inform	ation	•		(
Reference Pt. Well Diameter_ Water Depth fr		above grade) Well Depth		oro
II. Well Volum	e Information			
Length of Wate	r Column 5.9	Volume o	of Water Column	1 gn_
III. Evacuatio	n Information			O
Evacuation Met Redline	hod MASTERY	Iibration Stds:	7	
Purge Volume (Gals) T	-	/ SpC	10 Time
`		2 2 .	=	
2		(2,0		1323
J	ĺ	6.7		1329
IV. Sample Dat	a			
Container(s)	Preservation	Time Collected	Sample ID No.	Analysis
2	162	1330	91ND05508	PCB
٦	1 CE	1330	SOUSOUN 16	PCB
V. Field Measu	rements			
Temp. 3.6	рН	SpC_ 185	Film_ \30	UE
VI. Remarks/Mis	scellaneous Obser	rvations CLEAR	۲	
	•	•		
VII. Sample Des	stination			
FMS Laboratori	Via		_	
LAUGIACOTY	v1a		_ By	
			\sim	

SiteND	Well	No. 75	
Sampling Purpose 12 Cnow			
Date/Time: 5129191	In	<u> 1010 </u>	1230
Sampling Personnel Mnnw/2	1 15h 1st		
HNu Background Well_	We	eather Own 1	or
I. Well Information		ι	
Reference Pt. (casing & height			
Well Diameter	Well Depth	i from RP 20	.00
II. Well Volume Information			
Length of Water Column	3 Volume o	of Water Column	1.0gn
III. Evacuation Information			
Evacuation Method MASTER			
	ibration Stds: _	$\frac{1}{2}$	10
Purge Volume (Gals) T	pН	SpC	Time
15.	ვ გ .c	330	1205
2 15.	2 8.7	, ³³⁰	, 521
IV. Sample Data			
Container(s) Preservation		Sample ID No. 91 NDOS \$03	Analysis PCB
V. Field Measurements			
Temp. '5.2 pH 8.7	SpC33	Film N	me
VI. Remarks/Miscellaneous Obser	vations CLEN	r_	
VII. Sample Destination			
EMS Laboratory Via		By	

Site ND	Well	No56	
Sampling Purpose 7,6na			
Date/Time: 525 91 Sampling Personnel him RH	In /e	0ut_	0230 230 31
HNu Background Well_		ther Nor Cla	Mor
I. Well Information	·		
Reference Pt. (casing & height above Well Diameter Water Depth from RP 10.00	ve grade) Well Depth	from RP	25
II. Well Volume Information			
Length of Water Column 6.25	Volume of	Water Column_	1.0 gr
III. Evacuation Information			
Evacuation Method BAUER Redline Calibra Purge Volume (Gals) T 1 () Ry) 3.9	pH	7 SpC 240	10 Time (347
IV. Sample Data			
	e Collected HO 5/30/91		Analysis PCA PCB
J. Field Measurements			
Temp. 13.9 pH 10.6	SpC_ 240	Film 🎾	NE
VI. Remarks/Miscellaneous Observati	ons CLEW	د	
/II. Sample Destination			
EMS Laboratory Via		Ву	
	M.R.	MQ.	·

Site	Well No	6B	
Sampling Purpose , & Grow	well no		
Date/Time: 5/2>/94	In [003	Out 05	30 5 30 3
Sampling Personnel The RH			
HNu Background Well	Weather	Clary, H.	1 /1
I. Well Information		·	
Reference Pt. (casing & height above Well Diameter	grade) Well Depth from	RP 18.92	
II. Well Volume Information			
Length of Water Column 2.97	Volume of Wate	er Column	48 gm
III. Evacuation Information			,
Evacuation Method BALLET			
RedlineCalibrat	ion Stds:	7 —	10
Purge Volume (Gals) T 2	pH	SpC	Time
0.75 (Ry) 13.E	7.0	440	1325
IV. Sample Data			
		ole ID No. Dos \$ 05	Analysis PCB
V. Field Measurements			
Temp. 13.2 pH 7.0	Spc410	_ Film_ Non	بر ———
VI. Remarks/Miscellaneous Observation	ns (Utin		
			,
VII. Sample Destination			
EMS Laboratory Via	Ву _		<u> </u>
	MAC 11 10	$\left\langle \left\langle \right\rangle \right\rangle$	

SiteND	,	Well	No	ID	
Compline Domester	2 6 may				
Date/Time: 5/19/9 Sampling Personnel 1 HNu Background	1	In [61 <i>b</i>	Out 13	15
Sampling Personnel ' 1	IN HW KH	KN VL			
HNu Background	Well	DC We	ather Hor	clany	
I. Well Information				1	
Reference Pt. (casing &	& height abo	ove grade)			
Well DiameterWater Depth from RP	37.57	Well Depth	from RP	<u>55</u>	75
II. Well Volume Informa	ation				
Length of Water Column	18.18	Volume o	f Water Col	Lumn_3	yr_
III. Evacuation Informa	ition				
Evacuation Method					_
Redline	Calibr	ation Stds: _		_7	10
Purge Volume (Gals)	T	712 654		БрС	Time
X+(DRy)	13.8	215 10 EX	sule) :	360	1227
·					
IV. Sample Data					
Container(s) Preserv	ation Ti	me Collected	Sample ID	No.	Am = 1
2. lce			_		
	•	(3)5	Y10053	50°	103
V. Field Measurements					
Temp. :3.8 pH > 12	OFF SLLAE	SpC360	Fil	m News	E
VI. Remarks/Miscellaneo	us Observat	ions (1=40)			
VII. Sample Destination					
EMS Laboratory Via			Bv		
			· - 		

SiteND		Well	No. 2D	
	nov			
Date/Time: 5(29 9) Sampling Personnel nr	O	In LC	0ut_	1230
HNu Background			and the Mark	
in a baonground	_ well	We	ather Hot CL	, , , , , , , , , , , , , , , , , , ,
I. Well Information				•
Reference Pt. (casing & Well Diameter	height abo	ve grade)	from RP 54.19	<u> </u>
Well DiameterWater Depth from RP	44.67			-
II. Well Volume Informat				
Length of Water Column	9.48	Volume o	f Water Column_	1.55 gr
III. Evacuation Informat	ion			
Evacuation Method BAI	ER			
Redline		ation Stds:	7	10
Purge Volume (Gals)	T	pН	SpC	Time
1.75	14.8	8.7	260	4051
A.25	14.8	_	220	1216
		g.8	230	6
IV. Sample Data		·		
Container(s) Preservat	ion Tin	ne Collected	Sample ID No	
2 100				-
2	:	230	Possodnie	PiB
V. Field Measurements				
11.0	.8			
		SpC 290		olt
VI. Remarks/Miscellaneous	Observati	ons CLEAN	_	
VII. Sample Destination				
EMS Laboratory Via			Ву	· ·

SiteWell	11 No. 45	
Dans (Times		
Sampling Personnel Nr MW RH RV RT	1910 Out	1220
	leather Clovey He	
I. Well Information		
Reference Pt. (casing & height above grade)Well Diameter Well Dept Water Depth from RP	h from RP52.05	;
II. Well Volume Information		
Length of Water Column 10.25 Volume	of Water Column	1.67 gr
III. Evacuation Information		
Evacuation Method BALLER		
Redline Calibration Stds:	<u> </u>	10
Purge Volume (Gals) T pH	SpC	Time
10(5 VOL WOR ORY) 14.2 7.3	500	'20 5
IV. Sample Data		
Container(s) Preservation Time Collected	Compl. ID N	
107	Sample ID No. 91 ND 055 01	Analysis PCB
V. Field Measurements		
14.		
Temp. /4.2 pH 7.3 SpC 50	Film Vol	돈
VI. Remarks/Miscellaneous Observations	>	
VII. Sample Destination		
EMS Laboratory Via	_ ву	
_MIZ	Mas-	

Site	Well	No. 5D	
Sampling Purpose 1/2 c ran			51
Date/Time: 5/29/91 Sampling Personnel Hn nw Ri	In 10	0ut_[340
HNu Background Well_	86 120	ather Hor Clo	IN a
		actici pi ca	-
I. Well Information			
Reference Pt. (casing & height Well Diameter	above grade) Well Depth	from RP47.6	<u>. </u>
Water Depth from RP	<u> 15</u>		
II. Well Volume Information			
Length of Water Column 1.46	Volume o	f Water Column	1.87902
III. Evacuation Information			
Evacuation Method BALER			
RedlineCal	ibration Stds: _	77	10
Purge Volume (Gals) T	pН	SpC	Time
3 (DRy) 13.7	8.3	370	;334
IV. Sample Data Container(s) Preservation	Time Collected `るいる	Sample ID No. 91ND <i>o</i> 5\$02	•
V. Field Measurements			
Temp. 13.7 pH 8.3	spc_ 370	Film_ / >	ME
VI. Remarks/Miscellaneous Obser	vations (LF)		
		,, _	
VII. Sample Destination			
EMS Laboratory Via		Ву	
		- , <u></u>	
		_	



APPENDIX D

SiteN	iD		Wel	1 No	15	
	pose CONFID	٦				
Date/Time:			In	1130	_Out_	1600
	sonnel Min R		1		_	78.50
HNu Backgrou	nd	WellB	C- W	eather No	SUNA	بع
I. Well Info	rmation					(
Reference Pt Well Diamete	. (casing & he	ight above	grade)	DD		
Water Depth	rfrom RP	3.44	well pept	1 Irom KP_	(8.	20
	ume Information					
Length of Wa	ter Column	4.56	Volume o	of Water Co	olumn	0.74 gr
III. Evacuat:	ion Information	n				
	ethod MASTER!	LEX				
Redline		_Calibrat	ion Stds:		7	10
Purge Volume	(Gals)	T	pН		SpC	Time
<i>y</i>		///.s	712	_	5- 5-0-	1410
0.75 1.50		15.5	7.9		90	1519
2.25		16.0	9.4		190	1522
7.00		15.3	404	,	182	1528
3.75 IV. Sample Da	ıta	14,8	8.5		190	1533
- · · · · · · · · · · · · · · · · · · ·	ıca	14.8	છે. ક <u>્</u> ટ	,	120	1536
Container(s)	Preservatio	n Time				
2	ICE		Collected	•		Analysis
2	icz-		600	31 ND 06	_	PLB
	. —		(000	90 an ic	DO8	PCB
V. Field Meas	urements					
Temp. 14.8	рН <u>8</u> .8	s	pc 190	Fi	lm_No	NE
VI. Remarks/M	iscellaneous O	bservation	s cuen	R		
VII. Sample D	estination					
EMS Laborator	y Via			_ By		<u>. </u>

Site	JD				
Sampling Pu	rpose CONFIR	h 7	Well No.	_25	
Date/Time:	612010	<u>' </u>			
Sampling Pe	rsonnel ha	13.1	In <u>_ 1130</u>	Out_	1515
HNu Backgro	und	Tell of	<u> </u>		
_		ve11	Weathe	r HOT, SUA	טוני
I. Well Info	ormation				1
Reference Pt Well Diamete	. (casing & hei	ght above gra	ıde)		
Water Depth	from RP14	.13 Wel	l Depth from	n RP 20.	00
II. Well Vol	ume Information				
Length of Wa	ter Column	5.87 v	olume of Wat	er Column	0.36 an
III. Evacuat	ion Information				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Evacuation Me	thod MASTERP	LEX			
Purge Volume	(Gals)	Calibration S	Stds: 1	7	
1	(Gars)	T	рН		10
•		16.(7.8	SpC	Time
3		15.3	8.	338	1431
3		15.4	9.4 9.4	946 946	1438
IV. Sample Da	t a		217	338	1445
Container(s)	Preservation	Time Colle	ected Samp	le ID No. Do6\$o3	Analysis RB
V. Field Measu	rements				
Temp	рн	SpC	338	Tita America	_
VI. Remarks/Mi	scellaneous Obse		PKI	Film Wou	
			~! \		
VII. Sample Des	Stination				
EMS Laboratory	Via		Rv		
			<i></i>		

Site	ND				Well	No	55		
	Purpose_	CONFIR	17						
	e:6	الا (حد			In	1130	Out_	0830	6/2
•	Personnel		15V	HW (5M				1
	ground		Jell	BG	Wea	ather_	HOT il	su _y	
I. Well I	Informatio	n						`	
	e Pt. (cas meter_				de) 1 Depth		P \ 7.3	5	
	th from R		. 24	we	.i bepcn	TIOM N	.r <u> </u>	<u> </u>	
water bep	oth from K	·L		_					
II. Well	Volume In	formation	n						
Length of	Water Co	lumn	5.31		olume o	f Water	Column_	0.87	gn_
III. Evac	cuation In	formation	n						
Evacuation	on Method_	BALLER			_				
Redline_			Calib	ration	Stds: _		<u> </u>		10
_	Lume (Gals)	T		pН		SpC	1	ime
i gai	(ory)		13.8	,	7.6		325	•	315
IV. Sampl Container Z 2		eservatio 10E 10E	on T	'ime Col - 영경 여행3 6(고)	o D	91 10	e ID No. 206501	Anal PCE P<1	
V. Field	Measureme	nts		(113)	, - ,		,		
					_				
Temp. 13	3. 8 pH_	7.0	•	SpC	325		Film	JONE_	
VI. Reman	rks/Miscel	laneous	Observa	itions	CLEAN	Z			
VII. Samp	ple Destir	ation							
EMS Labor	ratory Via	ı				_ By		_	
				١٨	, (A	$\bigcirc \bigcirc$		

SiteND			Well	No	60		
Sampling Purpose	CONFIRM				4		
Date/Time: 6/20/91			In_	1130	Out		
Sampling Personnel	MH RV H	(L) C-					
HNu Background	Well	BG	Wea	ather	dot 501	لكاد	
I. Well Information					101	(
Reference Pt. (casin Well Diameter Water Depth from RP_	g & height	above grad	le) Depth	from R	P_ 18.9	2	
II. Well Volume Info							
Length of Water Colu	mni.l	Vo	lume of	Water	Column_	0.183	M
III. Evacuation Info	rmation					~	
Evacuation Method	BAILER						
Redline		ibration S	tde.	1	7 .		
Purge Volume (Gals)	T	. IDIUCION 5	pH		SpC -	m:	_10 me
DRY, NO WATE	<i>r in w€</i>						

Container(s) Prese 2	ervation ι ⊂∈	Time Coll	ected		e ID No.		
V. Field Measurements	5						
ГетррН		SpC			Film		
JI. Remarks/Miscellar	neous Obser	vations					
JO SAT	RIE TA	new					
JII. Sample Destinati	ion						
EMS Laboratory Via	 _			Ву			

SiteND		Wol	ll No.	D	
Sampling Purpose 4 Co.	TEIRL	we	LI NO		
Date/Time: 620 91		In	1130	Out_	12.1
Sampling Personnel ho	RV MW	<u>5m</u>		out	1311
HNu Background	Well	BG W	leather_	אר המחל	or
I. Well Information					
Reference Pt. (casing & Well Diameter	height abo	ove grade)	h from D	P55.	75
Well Diameter Water Depth from RP	37.97	жетт верс 	11 LIOM K	r	[]
II. Well Volume Informat					-,
Length of Water Column_	17.78	Volume	of Water	Column	2.90 g/k
III. Evacuation Informat	ion				
Evacuation Method BAIL					
Purge Volume (Gals)		ation Stds: _		7	10
3	T	pН		SpC	Time
6	14.5	712		220	1410
•	14.3	712	٠	Z38	1455
IV. Sample Data Container(s) Preservat Container(s) Preservat Container(s) Preservat	ion Tin	e Collected	P = C	ID No.	Analysis PG
V. Field Measurements					
Temp. / 4.3 pH 7/2		SpC238		Film Wo	ು ೯
VI. Remarks/Miscellaneous	Observati	ons C (EAR	BUT I	nuky	
VII. Sample Destination					
EMS Laboratory Via			D.,		
-			- ву		
		M.R.	MC)	

SiteNO		Well	No. 20	
Sampling Purpose	CONFIRM			
Date/Time: 6	120191	In 1(3	Ou:	1430
Sampling Personnel	MH RU ML			
HNu Background	Well	We a	ather HoT	sunny
I. Well Informatio	n			·
Reference Pt. (cas Well Diameter Water Depth from R	2"	pove grade) Well Depth	from RP 54.	5
II. Well Volume In	formation			
Length of Water Co	lumn9.(6_	Volume of	Water Column	1.5 gAL
III. Evacuation In	formation		·	
Evacuation Method_		<u> </u>		
Redline		oration Stds: _	7	10
Purge Volume (Gals		pН	SpC	Time
<u>1.</u> 5	/S.5	7.5	255	1352
3.0	/5.1	7.0	300	1400
4 .5	; s. 8	7.0	312	_ 1486
<pre>IV. Sample Data Container(s) Pro</pre>	eservation]	Time Collected	Sample ID No	Analysis
2	\CE	1415	SINDOSSOA	
V. Field Measureme	nts 7.0	STC 312		None
Temp. 15.8 pH_		SpC	Film_	Nane
VI. Remarks/Miscel	laneous Observa	ations % (6)	at turbio	
VII. Sample Destin	ation			
EMS Laboratory Via		·	_ By	

Site	ND			Well No	40	
Sampling Pu	irposeCONF	in T				
Date/Time:	6120191		Ir	n <u>)(30</u>	Out_	1600
Sampling Pe	ersonnel	RY MW	<u>sm</u>			
HNu Backgro	ound	Well	130-	_ Weather	HOT SUN	<u> </u>
I. Well Ind	Eormation					•
Reference I Well Diamet	Pt. (casing & ter n from RP	height abo	ve grade) Well De	epth from	RP52	,05
	olume Informat					
Length of V	Vater Column_	9.97	Volum	ne of Wat	er Column	i. 63 gr
III. Evacua	ation Informat	ion				
	Method BALL					
	<u> </u>				·	
Purge Volum	ne (Gals)	T	-	ρH	SpC	
1.75		14.3		12_	450	
3.50		14+1	1	1.2	450	7537
IV. Sample Container(s 2	Data s) Preserva \ CE		me Collect		aple ID No.	Analysis FCB
V. Field Me	easurements				r	
Tempi4.1	pH\(٠2	_ SpC	50	Film	DONE
VI. Remarks	s/Miscellaneou	ıs Observat	ions for	310		
VII. Sample	e Destination					
EMS Labora	tory Via			Ву		

SiteND	Well No. 5	D
Sampling Purpose CONFICH		
Date/Time: 6(20) 9(In_1130	Out 1630
Sampling Personnel HH RV HW SH		
HNu Background Well By	Weather Ho	ST SUNNY
I. Well Information		{
Reference Pt. (casing & height above Well Diameter	grade) Well Depth from RP_	47.61
Water Depth from RP 36.43		
II. Well Volume Information		
Length of Water Column 11.18	_ Volume of Water C	olumn 1.82 342
III. Evacuation Information		
Evacuation Method_BAILER_		
RedlineCalibratio	on Stds:	710
Purge Volume (Gals) T	рН	SpC Time
=.5(DRY) 14.4	· · · · · · · · · · · · · · · · · · ·	400 1610
IV. Sample Data		
Container(s) Preservation Time (Sollected Sample 6/5 9/2000	
V. Field Measurements		
Temp. / 1.4 pH 11.0 Sp	oc 400 F	ilm_NONE
VI. Remarks/Miscellaneous Observations	SLIGHT TURB	<i>ه</i> ا
•		
VII. Sample Destination		
EMS Laboratory Via	Ву	
•		